

ABC Project Highlights

Project Name: I-15; Widening 500 N to I-215

Project #/PIN #: S-I15-7(213)230

Year Constructed: 2019

ABC Element(s): Half Depth Deck Panels

Placement Method:

Contracting Method: Precast superstructure using SPMT

Project Description: The I-15 Widening, 500 North to I-215 (Beck Street) project team, made up of Kiewit/Clyde (a joint Venture of Kiewit Western Co. and W.W. Clyde & Co.), Parsons Transportation Group (PTG), and the Utah Department of Transportation (UDOT), partnered through several challenging design and construction issues to bring about a final design and project that was most cost effective and an asset to the community.

The Beck Street project included the design, reconstruction, and widening of the mainline I-15 highway to add an Express Lane and reconstruct three general purpose lanes in each direction. Structural work included replacement of bridges at the Beck Street I-15 overpass and southbound US-89 overpass and the demolition of two bridges to be replaced by a new bridge at 1000 North. Additional project components included earthwork, retaining walls, storm drainage, signing, lighting, barriers, ATMS infrastructure, and utilities. The girders on the Beck Street structure are the longest pre-cast concrete girders ever set in the U.S. The US-89 Bridge was constructed using accelerated bridge construction techniques which included moving the bridge spans into place via self-propelled modular transports minimizing traffic disruptions.

The Beck Street project allowed the Kiewit/Clyde team to excel in the areas of the innovation and several of the innovations implemented on the project were first time techniques on a UDOT project. These innovations also played an important role in achieving project completion 60 days ahead of schedule. These innovations included oscillated drilled shafts with base grouting, partial depth precast deck panels, moveable barrier for maintenance-of-traffic, deep soil mixing, the longest Type IV precast concrete girders ever set in the U.S., and accelerated bridge construction techniques.





